

## CERES Systems Engineering Committee

Members: Maria Mitchum, NASA, DMO  
Sandy Nolan, SAIC  
Jill Travers, DAAC  
Sue Sorlie, DAAC

Charter: Serve as a forum for resolving issues which affect more than one working group. Report to CERES Data Management Team

**January 13, 1999 10:00 am**

Automated Product Generation System (APGS) Meeting, DAAC, R1313.

Maria met with the Denise Cooper and Sharon Rodier from SAIC, and the following DAAC representatives: Bob Ignacio, Randy Dye, Jill Travers, Sue Sorlie, Tom Regan, Don Rieger, and Vertley Hopson. The purpose of the meeting was to discuss Subsystem 1, Instrument, APGS developed to date. The APGS developers (Bob, Randy, and Tom) stressed that the nominal case scenario that they had developed for the Automated Production System could not work for the 'DMT to DAAC Production Request', Item 46. A special runtime parameter 'IES\_Only' had been requested and they did not have that built into their logic. This was brought up as a typical example of where the ASCII (PCFin) File Generator Script for Instrument was modified in their latest delivery (different from the previous delivery) and therefore the APGS code was inadequate to handle the new parameter.

The bottom line is that the APGS developers requested that the requirement to build the PCF file in the Automated System be changed. **They would like to have all Subsystems continue to deliver their ASCII (PCFin) File Generator Scripts.** They would then concentrate on building the front end (Prologue - Staging Requirements) and back end (Epilogue - Disposition Requirements) for each PGE. Several positive points were made to support this approach.

- The ASCII (PCFin) File Generator Scripts will always be required in Subsystem Deliveries to the DAAC in the event that the APG System is down and manual processing must be invoked.
- The manual and automated Process Control File (PCF) should always be the same, which can only happen if the PCFin files are the same, hence the ASCII (PCFin) File Generator Scripts must be the same.
- Because the APG System could only be written for a nominal case scenario, therefore any special production requests could not be automated and would need manual treatment.

Denise pointed out that the ASCII (PCFin) File Generator Scripts were written in a quick and dirty mode where no guidelines had been laid out. Therefore, some thought should be given to streamline the ASCII (PCFin) File Generator Scripts requirements. She also pointed out that some generators have 'hard-coded' parameters which should be changed to dynamic parameters.

Maria said that she would take this request under consideration and advisement. The LaTIS Processing Requirements Document will have to be rewritten, if this approach is taken. Maria also emphasized that the metadata data base must still be first priority in the APGS development - to be able to read and store the required .met files' information. Staging input requirements will be decided from queries into this data base.

Another issue of DAAC concern is that several PGEs create directories and files on-the-fly, such as .ps and .gif files, which are not specifically defined in the PCF. The DAAC 'Disposition Automation Logic' cannot work unless **'all'** files are documented and appear in the PCF prior to execution. The .met files do not appear in the PCF, which is a function of the way that the Toolkit operates. It was explained that all output files will have associated .met files with the exception of .ps and .gif files. It was further pointed out that all file types that produce .met files have associated Metadata Control Files in the form of 'DataSetName.MCF'.

Meeting adjourned at 11:30 am. mvm

### **July 27, 2000 9:00 am**

**APGS Requirement:** The Automated Production Generation System requests that all Operators Manuals list the minimum number of required inputs, for each input source, and the minimum expected file size. This is especially critical for Instrument Subsystem - Terra Level 0, ephemeris and attitude files, but all PGEs must include this information.

Meeting adjourned at 10:45 am mvm